

Automatic Control and (Cont.)

SOV/2656

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Card 4/5

BATKOV, A.M.

Report to be presented at the 1st Int'l Congress of the Int'l Federation of Automatic Control, 25 Jun-5 Jul 1960, Moscow, USSR.

- LAVROV, A. Yu. - "The application of a self-adjusting system of automatic control" (with V. S., FEDOROVICH, A. M., and DZERZHINSKY, A. - "Industrial telemechanical systems and digital techniques")
- MICHTYEV, M. V. - "Some peculiarities of the structure of multi-dimensional communications regulation systems"
- MINAKHIN, V. N. - "Evaluation indices and the possibility of increasing the quality of telemechanical systems"
- MINAKHIN, V. N. - "Concerning the problem of establishing routines in automatic regulation systems"
- MINAKHIN, V. N. - "Principles of construction of digital double code automatic computers"
- MINAKHIN, V. N. - "Concerning the relation of systems of automatic regulation with the parameters of periodic movement"
- MINAKHIN, V. N. - "Systems of automatic control of rolling mills with the use of digital calculating machines"
- MINAKHIN, V. N. - "Basic principles of organization of complex automation of large scale chemical production and optimization of these systems"
- MINAKHIN, G. M. - "Systems of automatic regulation with intermittent change of parameters"
- MINAKHIN, V. P. - "Statistical synthesis of impulse systems"
- MINAKHIN, V. P. - "The invariant principle and its application in the calculation of linear and nonlinear systems"
- MINAKHIN, V. P. - "The problem of autonomy in the technique of automatic control"
- MINAKHIN, V. P. - "Some problems of synthesis of automatic control nonlinear systems"
- MINAKHIN, V. P. - "Method of determining the optimum system with nonlinear relation of the observed function with the parameters of the system"
- MINAKHIN, V. P., PROKOF'YEV, V. V., and VOLKOV, S. S. - "Principles of construction of a single class of error control systems for automating production processes"
- MINAKHIN, V. P. - "The development of the theory of relay devices in the USSR"
- MINAKHIN, V. P. - "Dynamic characteristics of cores with eight angle hysteresis writing and their influence on magnetic memory"
- MINAKHIN, I. I. - "Varied methods of investigating the quality of automatic control systems"
- MINAKHIN, V. M. - "Dynamics of automatic regulation of boiler-turbine units"
- MINAKHIN, V. M., MEL'NIKOV, L. V., SHANOV, A. A., SIN-CHU-KUANG, Y., and FEDOROV, I. A. - "Automatic control of composition of multi-layered structures"
- MINAKHIN, V. S., and SOKOLOV, V. G. - "Some results of work for the utilization of radioactive radiation for automatic control of mining machinery"
- MINAKHIN, V. V., MATEEV, A. M., MARCHENKO, V. M., VAL'DENBERG, Yu. B., MATEEV, V. S., and PONOMAREV, A. K. - "Analysis and synthesis of automatic control systems with the aid of calculating machines"
- MINAKHIN, V. V., and SOKOLOV, I. M. - "Some questions of the design of automatic systems and the use for solution of variational problems in automatic systems"
- MINAKHIN, V. V. - "A system of alternating current electric drives with synchronous power supply"
- MINAKHIN, V. V., and TAIROVSKY, V. A. - "Algorithms for technical control of production with the use of similar relations"
- MINAKHIN, V. V., and ZHURDOV, G. A. - "Methods of organizing the trajectory of roots of linear systems and qualitative differentiation of type of trajectory"
- MINAKHIN, Yu. Z. - "Elements of the theory of digital automatic systems"
- MINAKHIN, D. B., MEL'NIKOV, V. A., and SHANOV, G. A. - "State stability of telemechanics"
- MINAKHIN, V. A. - "Interaction of a mathematical modeling and calculating technology important in calculating loads in electrical systems"

FILER I BOOK EXPLANATION

47/48

Arcostomis obsoleta upptäcktes i världens hela ekofita, upp. j (Autostomus) (Moerch, 1820, p. 489 s.).

Bl. of Publishing House: 67, Peshawar, Tech. Bldg., P.T.O., Schools' Management Bd., for Literatures on Technical Building and Instrument Making (President); Prof. M. F. Purnell, Director; S. Ali, Secretary; Doctor of Technical Sciences, Professor (Chairman); M. A. Bokhari, Professor, Doctor of Technical Sciences, Professor (Vice-Chairman); Dr. S. A. Khan, Doctor of Technical Sciences, Professor; Dr. M. Iqbal, Doctor of Technical Sciences, Professor; Dr. M. Riaz, Corresponding Member, Academy of Sciences, USSR; Dr. M. Iqbal, Doctor of Technical Sciences, Professor; Prof. Dr. G. S. Puri, Doctor of Technical Sciences, Professor; Prof. Dr. M. Syed, Doctor of Technical Sciences, Professor; Dr. V. Aslam, Candidate of Technical Sciences; Dr. D. S. Deo, Candidate of Technical Sciences; Dr. S. A. Khan, Candidate of Technical Sciences; Dr. S. A. Khan, Candidate of Technical Sciences (Scientific Secretary), V.P.B.

PROGRESS: This book is intended for scientific workers, engineers, and aspirants working in the field of automatic control.

CONTENTS: The book is the third collection of reports read at the seminar on automatic control and computer engineering of the IITD post-graduate programme "Automatic Control and Computer Engineering", held at the IITD, Delhi.

Reviews. *On the Mathematical Properties of Sampled-Data Systems*. By PROSPER, H. D. In the *Journal of Electrical Engineering*, Vol. 30, No. 3, Jan.-March 1955, pp. 111-120. (Review by L. A. LEWIS.)
 The author has written a very lucid article on the properties of sampled-data systems. It contains papers on current topics in stochastic control and a capsule summary of problems involved in the complex automation of industrial processes by means of control machines and includes the discussion of the design of linear and nonlinear automatic control systems. The book covers some questions related to the dynamics of such systems, types of servomechanical operational modes and ways of obtaining optimum transient processes. Automatic control systems involving discrete computers, systems with variable parameters, sampling-data control systems, the dynamic behavior of these systems during random motions, and the theory of sampled-data systems are discussed. No personalities are mentioned. References are found at the end of each article.

STRUCTURAL AND COMPUTATIONAL METHODS OF THE LINEAR THEORY OF CONTROL SYSTEMS WITH VARIABLE PARAMETERS DURING RANDOM ACTUATION

卷之三

Price, A.J., I.P. Pappalardo, Design of Simple Optical Delay Systems 21

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RUDNER, V. I., V. V. KERBERICH. Stability of Self-Oscillations of Longitudinal

ପ୍ରକାଶକ ପତ୍ର ପରିଚୟ

卷之三

AM/MB/CS
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APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

BATKOV, A M.

PHASE I BOOK EXPLOITATION

SOV/4986

Solodovnikov, Vladimir Viktorovich

Statisticheskaya dinamika lineynykh sistem avtomaticheskogo upravleniya (Statistical Dynamics of Linear Systems in Automatic Control) Moscow, Fizmatgiz, 1960. 655 p. 10,000 copies printed.

Ed.: O. K. Sobolev; Tech. Ed.: N. Ya. Muratova.

PURPOSE: This advanced textbook is intended for university engineering students, research scientists, and practicing engineers concerned with the design and calculation of the performance of linear control systems, particularly those subject to random inputs.

COVERAGE: The book deals with the mathematical theory, operating characteristics, and the design of linear servo-control systems, particularly those required to operate under conditions of random inputs. The book develops the usual theory of linear systems subject to specified input functions and then proceeds to extend

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Statistical Dynamics (Cont.)

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this theory with the methods of mathematical statistics and the theory of random processes. It is partially based on the contents of an earlier book of the author, entitled *Vvedeniye v statisticheskuyu dinamiku sistem avtomaticheskogo upravleniya* (Introduction Into The Statistical Dynamics Of Automatic Control Systems), published in 1952. This volume, however, has been enlarged to about twice the size of the previous text, and many chapters have been entirely rewritten. Included are completely new chapters dealing with problems of analysis and synthesis of systems with variable parameters, discrete systems, devices and methods of treatment of experimental data, the general theory of synthesis on the basis of the concepts of the theory of games and decision functions, the synthesis of servosystems, and the analysis and synthesis of variable and discrete systems. The following scientists participated in the writing of this book: A. M. Batkov (Chapters X and XI) and L. T. Kuzin (Chapters XII and XIII). A number of sections were written by the author jointly with other scientists: section 9 of Chapter IV, and sections 6 to 9 of Chapter V.

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Statistical Dynamics (Cont.)**SOV/4986**

with A. S. Uskov; section 18 Chapter VII with Yu. S. Val'denberg; sections 1, 2, 9 to 14 of Chapter VIII, and sections 1, 2, 6, of Chapter IX with P. S. Matveyev; and section 5 of Chapter IX with V. P. Alekperov. Section 4 of Chapter IX was written by E. N. Sorenkov. In addition to a very large number of footnotes, there are 154 references: 91 Soviet (18 of which are translations), 42 English, and 3 French.

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Statistical Dynamics (Cont.)

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Ch. XI. Some Problems in the Synthesis of Linear Systems With Variable Parameters in the Case of Stationary Random Inputs

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Card 15/19

16,800 (1031,1132,1329)

30107
S/194/61/000/007/012/079
D201/D305

AUTHOR:

Batkov, A.M.

TITLE:

Certain problems of the theory of linear systems with variable parameters at random disturbance

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 7, 1961, 36, abstract 7 V269 (V sb. Avtomat. upr.
i vychisl. tekhn. no. 3, M., Mashgiz, 1960, 302-372)

TEXT: Certain methods and part synthesis is given of the analysis of linear automatic control systems with variable parameters and random disturbances. The problem is considered of dynamic accuracy with stationary and non-stationary disturbances. The analysis of dynamic accuracy reduces to evaluating dispersion and the correlation function of the random process (error) at the system output from the known properties of input disturbance (noise), and from the differential equation of the system which relates the input disturbance to the error. This problem is solved by the method of shaping

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D201/D305

Certain problems...

filters by the use of analogue devices. In a system described by the differential equation with variable coefficients

$$a_n(t)x^{(n)}(t) + \dots + a_0(t)x(t) = b_m(t)f^{(m)}(t) + \dots + b_0(t)f(t), \quad (1)$$

the transient response $k(t, \tau)$ may be determined from the solution of the homogeneous equation corresponding to Eq. (1) at zero initial conditions. Certain properties are given of the correlation functions of the class of non-stationary random processes. The methods of determining the transient response of shaping filter are discussed. The first method leads to the Fredholm integral equation of the second order; the second method makes it possible to determine the differential equation of the shaping filter which can be subsequently simulated. The methods are considered of synthesis of optimum linear systems with variable parameters taking into account random disturbances, the optimum systems being those which result either in zero of dynamic and in a minimum of r.m.s. errors of both steady

Card 2/4

Certain problems...

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D201/D305

an expression analogous to that of a system with constant parameters.
12 references. Abstracter's note: Complete translation

Card 4/4

S/621/61/000/000/003/014
D234/D303

On analysis and design of ...

of design and application of these systems cannot be developed at present, but there are certain general requirements, which he quotes. These enable one to formulate the problem of design and analysis of the system in some cases. The author discusses the application of these principles to the problem of synthesis of systems which adapt themselves to the parameters of the useful input signal, and mentions two methods of solution known at present. Examples are given. It is stated that design problems for systems of other types can be solved with the aid of dynamic programming and an example of the application of the method is given. If the structure of a system has been found, it is necessary to analyze it, i.e. to determine the error according to the criterion, also to find other characteristics of accuracy. The author considers some cases in which the analysis can be simplified, and states that the theory of design and analysis must be based on the theory of dynamic systems with random parameters or random structure; this would permit the application of well-known probability methods. There are 6 figures and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read

Card 2/3

On analysis and design of ...

S/621/61/000/000/003/014
D234/D303

as follows: J. Aseltine, "A survey of adaptive control systems", IRE-Transact on AC, Decemb. 1958; 'Aviation Week' 26/1, p. 34, 9/2, p. 89, 1959; R.E. Kalman, Design of self optimizing control system, Transact. ASME, no. 2, 1958; L. Groginsky, On the design of adaptive systems, Convention Record, IRE, pt. 4, 1958.

✓

Card 3/3

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AUTHORS:

Solodovnikov, V.V., Batkov, A.M., Baburin, V.M., Val'denberg, Yu.S.
Matveyev, P.S., Pokrovskiy, A.N.

TITLE:

Analysis and synthesis of automatic control systems using the means
of computer technology

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 9, 1962, 43, abstract 9V229
("Tr. I Mezhdunar. kongressa Mezhdunar. federatsii po avtomat.
upr., 1960." (T. 4). Tekhn. sredstva avtomatiki", Moscow., AN SSSR,
1961, 191 - 206. Discussion, 206 - 207)

TEXT: The problem of analyzing an automatic control system which is af-
fected by several perturbing forces reduces to the solution of integral equa-
tions of the form:

$$R_{x_i y_k}(t) = \int_0^{\infty} R_{y_k y_k}(t - \tau) K_k(\tau) d\tau \quad \text{for } i = 1, 2, \dots, n; \quad (1)$$

k = 1, 2, ..., m.

Card 1/4

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Analysis and synthesis of automatic ...

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The problem of system synthesis reduces to the solution of an integral equation

$$\int_0^T R(t - \tau) K(\tau) d\tau = F(t); \quad 0 < t < \infty; \quad (2)$$

with constraints of the form $\int_0^T f_i(\tau) K(\tau) d\tau = \mu_i$. (3)

The paper considers: first, the general method of solution in closed form of the class of synthesis problems which reduce to the integral equation (2); second, the application of the method of inverse systems to the analysis of linear systems by means of electronic simulating installations in the case of nonstationary random forces at the input; third, special-purpose computers elaborated by the authors and, fourth, some problems of applying general-purpose digital computers to the solution of problems which reduce to the expressions (1) and (2). The method of solution set forth does not require the application of artificial methods and includes as special cases all the analyzed problems of statistical dynamics in the class of systems with constant parameters. The theorems set forth in the article make it possible to: 1) determine the correlation

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Analysis and synthesis of automatic

function of the output signal of an automatic control system with variable parameters in the presence of white noise at the input; 2) determine the differential equation of the shaping filter for a nonstationary stochastic process with a correlation function of the form

$$R(t, \tau) = \sum_{i=1}^n \varphi_i(t) \psi_i(\tau) \quad (t > \tau),$$

where φ_i and ψ_i are linearly independent functions continuously together with their derivatives; n is bounded. A similar method may be applied to automatic control systems containing inertialess elements. The system of equations thus obtained may be solved with the aid of a simulator. The correlograph described is a special-purpose analog computer. It is designed for the computation of correlation functions of processes with a low-frequency spectrum of 0 + 20 cps. The error of the solution is 5 + 10% of the maximum value. The synthesizer is a special-purpose computer for the solution of linear one-dimensional integral equations of the Fredholm and Volterra type of the first and second kind with a convolution kernel and also for calculating autocorrelation and correlation

Card 3/4

Analysis and synthesis of automatic

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functions. The time of solving an equation is 10 + 40 sec. The error of solution of the problems is 5 + 10%. The method of solving the integral equations is based upon approximating them with a system of algebraic equations and solving this system by Zaydel's iteration method. The possibility of applying general-purpose computers to the analysis and synthesis of automatic control systems is analyzed, and the required sequence of operations is proposed.

A.D. Zaikin

[Abstracter's note: Complete translation]

Card 4/4

BATKOV, A.M., kand. tekhn. nauk; STAROVEROV, A.N., st. prepod.
TARAKANOVA, L.A., red.

[Automatic control using computers] Avtomaticheskoe
upravlenie s primenением vychislitel'nykh mashin. Mo-
skva, Mosk. inzhenerno-fizicheskii in-t. Pt.1. 1964.
199 p. (MIRA 18:4)

L 63255-65 EWT(d)/EFF(n)-2/EWP(v)/EWP(k)/EAI(h)/EAI(l) -4/1 -4/1 -4/1 -4/1 -4/1

ACCESSION NR: AP5012882

UR/0280/65/000/002/0123/0128

AUTHOR: Aleksandrov, V. M. (Moscow); Batkov, A. M. (Moscow); Staroverov, A. N. (Moscow); Sherikin, B. A. (Moscow)

TITLE: Determining the mathematical expectation and dispersion of the response of a multivariable nonlinear time-dependent system by computers

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1965. 123-128

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory

ABSTRACT: The accuracy is considered of an automatic-control system describable by these normal differential equations:

$$\frac{d\mathbf{Y}}{dt} = \mathbf{F}(t, \mathbf{Y}) + \mathbf{B}(t)\mathbf{I}, \quad \mathbf{Y}(0) = \mathbf{C}, \quad (1.1)$$

where $\mathbf{Y} = (y_i)$ is the column vector (system output); $\mathbf{F}(t, \mathbf{Y}) = (F_i(t, \mathbf{Y}))$ is a vector nonlinear function; $\mathbf{B}(t) = (\beta_{ij})$ is a variable rectangular matrix ($n \times m$); $\mathbf{l}(t) = (l_j)$ is the column vector representing the disturbance (white noise with independent components); $\mathbf{Y}(0) = \mathbf{C}$ is a random vector of initial conditions.

~~Card 1/2~~

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ACCESSION NR: AP5012882

noncorrelated to the disturbance vector. A method is suggested for setting up nonlinear differential equations (2.17) whose solution gives a vector of mathematical expectation and a dispersion matrix of the output signal in time. The output process is assumed to be close to normal. The method is claimed to be simpler in computations than the methods of statistical linearization with successive approximations or canonical random functions. If the nonlinear system (1,1) contains only single-variable nonlinearities, the expectation-and-dispersion equations (2.17) can be integrated on an analog computer. Generally, the method requires the use of a digital computer. For stationary conditions, the right-hand member of (2.17) is equal to zero, and the problem is reduced to solving a set of nonlinear algebraic equations. Orig. art. has 1 figure and 42 formulas.

ASSOCIATION: none

SUBMITTED: 13Feb64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 003

OTHER: 002

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Card 2/2

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BULGARIA/Chemical Technology. Chemical Products and Their
Application. Ceramics. Glass. Binding Materials.
Concrete.

H

Abstr Jour: Ref Zhur-Khim., No 10, 1959, 35787.

Author : Batkov, A. T.

Inst

Title : The Transport and Storage of Cement in Bulk.

Orig Pub: Stroitelstvo, 4, No 12, 5-12 (1957) (in Bulgarian)

Abstract: A review article. -- V. R.

Card : 1/1

KAISHEV, P.A., kand. na tekhn. nauki inzh.; BATKOV, An.T., inzh.

Underground hydroelectric-power plants. Priroda Bulg 10
no.5:28-35 S-0 '61.

BATKOV, YU. V., (Lieutenant of the Medical Service)

"Some Biological Properties of Pathogens Isolated in Different Clinical Forms of Dysentery"

Voyenno-Meditsinskiy Zhurnal, No. 12, December 1961, pp 62-73

BATKOV, Yu.V.; RAZUMOVICH, M.B.; ASS, M.Ya.

Infecticus ~~extromelia~~ in white mice. Lab. delo 8 no.3:42-44 Mr '62.
(MIRA 15:5)

1. Kafedra zoologii i fiziologii (yav. - dotsent M.B.Razumovich)
Brestskogo pedagogicheskogo instituta imeni "Pushkina".
(VIRUS DISEASES) (MICE—DISEASES AND PESTS)

BATKOV, Yu. V., leytenant meditsinskoy sluzhby

Some biological properties of causative agents isolated in
various clinical forms of dysentery. Voen.-med. zhur. no.12:
64 D '61. (MIRA 15:7)

(DYSENTERY) (ANTIBIOTICS)

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Znur - Khimiya, No 19, 1956, 63366

Author: Yemel'yanova, I. Z., Medvedev, S. F., Batkova, A. A.

Institution: None

Title: Operation Control of Production at the Work Place

Original

Periodical: Gidroliznaya i lesokhim. prom-st', 1956, No 2, 19-20^{v.1.}

Abstract: For the control of maintenance of technological conditions of operation it is recommended to carry out analyses in the shop using new high speed methods.

All-Union Sci Res. Inst. Hydrolysis & Sulphite-Alcohol Industry.

Card 1/1

KULESHOV, Vasiliy Nikolayevich; SHVARTSMAN, Vladimir Osipovich;
FROLOV, P.A., otv. red.; BOGACHEVA, G.V., red.; BATRAKOVA,
T.A., red.

[Electrical measurements of long-distance cable lines]
Elektricheskie izmerenija mezhdugorodnykh kablej sviazi.
Moskva, Izd-vo "Sviaz", 1964. 263 p. (MIRA 17:5)

BATKOWSKI, J. : BRYKOWSKI, R.

Monuments of architecture in the districts of Lesko and Ustrzyce.

P. 206 (Wierchy) Vol. 25, 1956, Krakow, Poland.

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSION (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

BATKOBSKI, S.

Conference of ministers in Prague. p.367

Warszaw, Poland. PRZEGLAD KOLEJOWY. Wydawnictwa Komunikacyjne
Vol.10, no.9, Sept.1958

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6
June 1959
Uncl.

RATKOWSKI, Tadeusz; PLAZEK, Edwin

On certain reactions of 3-amino-2,6-dimethyl-pyridine and
3-amino-2,4,6-trimethyl-pyridine. I. Reactions of the diazo
derivatives. Rocznik chemii 36 no.1:51-61 '62.

1. Katedra Chemii Organicznej, Politechnika, Wrocław.

BATKOWSKI, Tadeusz; PLAZEK, Edwin

Certain reactions of 3-amino-2,6-dimethylpyridine and
3-amino-2,4,6-trimethylpyridine. Pt. 2. Rocznik chemii 37
no. 3:273-282 '63.

1. Katedra Chemii Organicznej, Politechnika, Wrocław.

BATKOWSKI, Tadeusz

Studies on the structure of nitration products of 2,4-dimethyl-pyridine. Rocznik chemii 37 no. 4:385-393 '63.

1. Zaklad Chemii Ogolnej, Akademia Medyczna, Wroclaw.

BATKY, L.

Fields in which savings from innovations result. p. 12.
Contest in the exchange of experiences. p. 12.
UJITOK LAPJA, Budapest, Vol. 7, no. 15, Aug. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KACHURA, N.I., gornyy inzh.; BATLUKOV, V.N., gornyy inzh.

Open middlings pipe for the crushing and ore dressing plant.
Gor. zhur. no.12:60 D '62. (MIRA 15:11)

1. Dokuchayevskiy flyuso-dolomitnyy kombinat.
(Dokuchaevsk region—Hydraulic conveying)
(Ore dressing)

ZEL'TSER, V.; BATMANOV, A.

Mechanization and automation of industrial processes. Metallurg
9 no.6:38 Je '64. (MIRA 17:9)

PALKIN, G.A.; KURAMSHIN, T.V.; BATMANOV, B.I.; ZABOTIN, I., redaktor;
RAMZEEV, Kh., spets. redaktor; SHARAFUTDINOVA, M., tekhnicheskiy
redaktor

[House of farm crops on the collective farm] Dom sel'skokhoziaistven-
noi kul'tury v kolkhoze. Kazan', Tatgossizdat, 1952. 190 p.(MIRA 9:8)
(Agriculture--Study and teaching)

BATMANOV, B.I., agronom; KURAMSHIN, T.V., starshiy nauchnyy sootr.; PALKIN, G.A., kand. sel'khoz. nauk; BLAGORAZUMOV, P.N., red.; SAGITOVA, S.G., tekhn. red.

[Experimental work on collective and state farms] Opytnaya rabota v kolkhozakh i sovkhozakh. Kazan', Tatarskoe knizhnoe izd-vo, 1960.
246 p.
(MIRA 14:9)

1. Tatarskaya respublikanskaya sel'skokhozyaystvennaya optytnaya stantsiya (for Kuramshin).
(Agriculture--Experimentation)

LEBEDEV, A. (Pavlovo Gor'kovskoy obl.); SVENLOV, N. (Kirillov Vologodskoy
obl.); BATMANOV, G. (Tambov); MOKROUSOV, Ye. (Moskovskaya obl.)

Repaired by amateurs. Radio no. 9:34 S '64. (MIRA 17:12)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6

BATMANOV, K.M.

Mekhovye i ovchinnno-shubnye izdeliya (Fur and sheepskin coat products). Moskva, Tsentrosoiuz,
1953. 146 p. (B-ka tovaroveda raipotrebsoiusa)

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

BATMANOV, N.Ya.; SPAROVY, V.M.

Bilateral surgical interventions in pulmonary tuberculosis. Grud.
khir. no.4:71-76 Jl-Ag '62. (MIRA 15:10)

1. Iz sanatoriya imeni A.P.Chekhova (glavnnyy vrach V.V.Aleksandrovskaya) Yalta. Adres avtorov: g. Yalta, sanatori im. A.P.Chekhova.
(TUBERCULOSIS)
(LUNGS—SURGERY)

BATMANOV, N.Ya. (Yalta, ul. Flatanovaya, d. 5-a, kv. 28)

Neczale for direct introduction of aerosols into tuberculous caverns. Grudn. khir. 5 no. 3:105-106 My-Je '63 (MIRA 17:1)

1. Iz Yaltinskogo sanatoriya imeni A.P. Chekhova (glavnnyy vrach P.N. Khoroshke).

BATMANOV, N.Ya.

Significance of pneumoperitoneum in lung resection in pulmonary
tuberculosis. Probl.tub. 41 no.11:25-27 '63. (MIRA 17:9)

1. Iz sanatoriya imeni A.P. Chekhova (glavnnyy vrach P.N.Khoroshko)
Yalta.

BATMANOV, V. A. (Sverdlovsk)

"Statistic Methods of Phenological Cartography."

report presented at a Phenological Conference, Leningrad, Nov 1957,
by the USSR Geographical Soc.

BATMANOV, V.A. (Sverdlovsk)

Calendar of nature. Geog.v shkole 24 no.3:41-44 My-Je '61.
(Sukhoy Log District--Phenology--Study and teaching) (MIRA 14:5)

BATMANOV, V.A.

Phenological data and Gauss curve. Izv. Vses. geog. ob-va 93
no.6: 501-507 N-D '61. (MIRA 15:1)
(Sverdlovsk--Plants, Flowering of)

BATMAN V. A.

64

Welding of high-manganese Hatfield steels. V. A. Izmakov, J. V. Sklyarov and S. G. Riche. *Arzhanogor. Met., No. 4, 17-19 (1937); Chem. Zentral, 1938, I, 422.* The welding of hard Mn steel conig. C 0.6-1.3, Si 0.2-0.4, Mn 11.5-14.5 and Ni up to 0.25% is reported. After preliminary quenching in water from 1050-1100°, such steel can be satisfactorily welded with the use of the oxy-acetylene flame or with the arc if low-C electrodes conig. Mn 11-14 and Ni 3.5-4.5% are used. M. G. Moore

4.3.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

1. BATMANOV, V. A.
2. USSR (600)
4. Technology
7. Welding in repair of equipment. Vyp. 2, Svarka stali. Sverdlovsk, 1951

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

BATYUNOV, V.A.

V pomoshchi' rabochemu-svarshchiku (Guide for welders). Pod red. S.I. Mikhailova. Moskva, Mashgiz, 1953. 135 p.

SO: Monthly List of Russian Accessions, Vol 7, No 9, Dec 1954

BATMANOV, V. A.

Elektrosvarka v. remonte oborudovaniia. Vyp. 1. Svarka chuguna. 142 p.
Sverdlovsk, Mashgiz, 1950.

Electric welding in the repair of equipment. v. 1. Welding of cast iron.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BATMANOV, V.A.

Weldability of high-strength, low-carbon, low-alloy steel. Sbor.st.
UZTM no.6:87-120 '58. (MIRA 11:12)
(Steel alloys--Welding) (Welding--Testing)

18.3200

75957
SOV/133-59-10-18/39

AUTHORS: Stepanov, V. V. (Candidate of Technical Sciences, Docent),
Batmanov, V. A., Sanok, N. A. (Engineers)

TITLE: Electric Arc Heating of Ingot Heads

PERIODICAL: Stal', 1959, Nr 10, pp 913-916 (USSR)

ABSTRACT: Industrial tests conducted at "Elektrostal'", "Dneprospetsstal'" and "Azovstal'" plants (zavody "Elektrostal'", "Dneprospetsstal'", "Azovstal'") as well as at Kuznetsk Combine (Kužnetskiy kombinat) corroborated the expediency of arc heating of the ingot head metal. The portable experimental installation for electric arc heating developed by Ural Heavy Machinery Plant (Uralmashzavod) proved reliable and economic. An arc of a carbon electrode 80 mm in diameter and 300-800 mm long and gripped by a water-cooled holder is used. The electrode holder can be displaced along the column of the installation by 0.5 to 3 m and turned around it by 180°. The circuit regulates the length of the arc with the help of an automatic head A-66.

Card 1/3

Electric Arc Heating of Ingot Heads

75957

SOV/133-59-10-18/39

Table 1

Characteristics of electric arc heating of ingot heads.

Performance Figures	Arbitrary Ingot Designations *						
	A	B	C	D	E	F	G
Type of Steel	40	40	38KhGN	40	40	38KhGN	45
Ingot Weight, t	2	2	2	2	2	2	4
Time of ingot holding before heating, min . . .	1	1	2	3	22	1	4
Period of arc applica- tion, min	55	15	10	20	21	51	62
Shrinkage of metal, mm .	70-90	70-90	100- 120	80	80	100	—
Arc current, amp. ** . .	700- 800	700- 750	750- 800	700- 750	750- 800	700-750	700- 800

* Ingots "A," "B," "C" were heated with flux OSTs-45, others with FU-7 flux with magnesia additions.

** Arc voltage: 60 to 40 v.

Card 2/3

Electric Arc Heating of Ingot Heads

75957

SOV/133-59-10-12/39

The authors conclude that (1) electric arc heating decreases the volume of pipe formation observed only in the top part of the head metal, so that the weight of the head metal can be reduced by 7 to 8% of the total ingot weight; (2) liquation of sulfur and phosphorus as well as carburization of the metal is absent. The authors recommend further studies to determine the effects of temperature parameters on ingot crystallization and optimal temperature rates. There are 5 figures; and 2 tables.

ASSOCIATION:

Ural Polytechnic Institut (Ural'skiy politekhnicheskiy institut), Ural Heavy Machinery Plant (Ural'skiy zavod tyazhelogo mashinostroyeniya)

Card 3/3

BATMANOV, Vyacheslav Alekseyevich; MIKHAYLOV, S.I., kand. tekhn. nauk,
retsenzent; PERMIAKOV, E.Ye., inzh., red.; DUGINA, N.A., tekhn.
red.

[Welding of cast iron] Svarka chuguna. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1961. 143 p. (MIRA 14:9)
(Cast iron—Welding)

BATMANOV, V.A.

Phenological map of the beginning of the chokecherry (cherry of
the south) flowering in the U.S.S.R. Sib.geog.sbor. no.1:203-
210 '62. (MIRA 16:2)

(Phenology—Maps)

(Chokecherry)

(Plants, Flowering of)

BATMANOV, V.A.

School, protection of nature, and phenological observation in
parks and gardens. Okhr.prir.na Urale no.3:119-126 '62.
(MIRA 16:6)

(Parks) (Phenology)

BATMANOV, V.A., inzh.

Welding cast iron using TSCh-4 electrodes. Sbor. st.
NIITIAZHMASHA Uralmashzavoda no. 3243-64 '64. (MIRA 17+7)

BATMANOV, V.A.

Methodology of phenological observations on collective and state
farm lands. Mat. po fen. no. 3a19-26 '62 (MIRA 18:1)

BATMANOV, Ye. I.

Comparative evaluation of some methods of treating lupus erythematosus. Vest. derm. i ven. no.4:43-48 '62.
(MIRA 15:4)

1. Iz kliniki kozhnykh i venericheskikh bolezney (zav. - prof. A. S. Zenin) Kuybyshevskogo meditsinskogo instituta.

(LUPUS ERYTHEMATOSUS)

BOGDANOVA, Ye.K.; ROMANOVA, K.I.; BATMANOV, Ye.I.

Incidence of skin diseases in the indigenous population of
Nanayskiy District. Vest. derm. i ven. 37 no.1:72-73 Ja'63.
(MIRA 16:10)

1. Iz kafedry kozhnykh bolezney (zav. Ye.K.Bogdanova) Khaba-
rovskogo meditsinskogo instituta.
(NANAYSKIY DISTRICT—SKIN—DISEASES)

BATMANOV, Ye.S.

ALEKSANDROV, A.A.; BATMANOV, Ye.S.

Using dowels for fixing installation details of electric wiring.
[Suggested by A.A.Aleksandrov, E.S.Batmanov]. Rats. i izobr. predl.
v stroi. no.145:3-5 . '56. (MIRA 10:3)
(electric wiring)

BATMANOV, Yu.K., inzh.

Increasing the face advance rate. Ugol'. prom. no.4:13-15 Jl-
Ag '62. (MIRA 15:8)
(Coal mines and mining)

PRUDKIN, Ya.M., gornyy inzh.; KOVALEV, I.G., gornyy inzh.;
BATMANOV, Yu.K., gornyy inzh.

Effect of the increased advance rate or length of the longwall
on the improvement of technical and economic indices.
Ugol' 37 no.1:22-24 Ja '62.
(Mining engineering) (MIRA 15:2)

PATMANOV, Yu.Y., inzh.; YEDYKINA, M.F., inzh.

Effect of the mining system on indices of operations in mine
sections and mines. Ugol' Ukr. '7 no.10:42-43 O '63.
(MIRA 17;4)

BATMANOVA, N.N.; PETROVA, Z.A.; KHOYNATSKAYA, N.S.; CHUYEVA, K.N.

Experience in the detection and treatment of the chronic forms of
amebiasis. Sbor. nauch. rab. vrach. san.-kur. uchr. profsoiuзов
no.1:144-146 '64. (MIRA 18:10)

1. Sanatori "Krasnyy shakhter", Kislovodsk.

CS BATMANOVA, S.Ya.

7

Polarographic determination of sulfur dioxide. O. Ya.
Batmanova (Leningrad Sanit.-Hig. Med. Inst.). *Voprosy*
Sovet. 1951, No. 12, 17-20. SO₂ can be detd. polaro-
graphically after absorption either in pure H₂O or 0.01 N
NaOH after neutralization, with 0.1 N HCl soln. as the
electrolyte soln. in the detn. proper. The half-wave poten-
tial is -0.37 v. (vs. satd. calomel electrode). Results check
spectrometric detns. within 0.1 mg./cu. m. G. M. K.

Translation - 2524467, 30 Apr 54

DRINKWATER, U. S. Inc.

Chem Abt 848

1-26-54

Water, Sewage,
Sanitation

Determination of ammonia in water under field conditions.
O. Ya. Batmanova (Leningrad Sank. Hyg. Med. Inst.).—
Cirpok i Sosil. 1953, No. 7, 43.—In cases where the liquid
Nessler reagent is inconvenient to use in the field the
following solid form is recommended. KI (1 part) and HgI₂ [2 parts] are triturated together, and the mixt. is prepd. in
20-30-mg. packages. When ready to use one such unit is
mixed with a soln. contg. a 0.1-g. tablet of KOH in 1 ml.
distd. H₂O. In the analysis, 5 drops of this soln. is added to
10 ml. test H₂O and the color is examd. visually against a
standard scale. (2)
G. M. Kogolpoff

Chair of General Hygiene?

BATMANOVA, O.Ya.

Sanitary conditions of the Okhota River. Trudy ISGMI 26:114-132 '56.
(MLRA 10:6)

1. Kafedra obshchey gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - chlen-korr. AMN SSSR,
prof. R.A.Babayants.

(WATER SUPPLY,
sanit. cond. of rivers (Bns))

BATMANOVA, O.Ya.; MASOL'NIKOVA, T.K.; MOSKOVSKAYA, K.A.

Investigation of soil and water sources of Vsevolozhskiy District,
Leningrad Province. Trudy ISGMI 26:133-145 '56. (MLRA 10:6)

1. Kafedra obshchey gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. Zav. kafedroy - chlen-korrespondent ANN SSSR, prof. R.A.Babayants.

(WATER SUPPLY,

soil & water hyg. in sources of municipal water supply
(Bus))

Научно-исследовательский институт гигиенического и санитарного проектирования

BABAYANTS, R.A., professor; BATMANOVA, O.Ya., kand.med.nauk; VOLKOVA, N.V., kand.med.nauk; KIYAMOV, N.V., kand.med.nauk; LYKOVA, A.S., kand. med.nauk; MASOL'NIKOVA, T.K., kand.med.nauk; RUDENKO, V.A., kand. med.nauk; TOMILINA, K.A., kand.med.nauk; SHISTOVSKIY, S.P., kand. med.nauk; KIRPICHENKOV, M.P., sanitarnyy vrach; MAKHINENKO, A.I., sanitarnyy vrach; OSCHEPKOV, A.A., sanitarnyy vrach; PETROV, A.M., sanitarnyy vrach; ROSHAL', M.A., sanitarnyy vrach; SHEPELIN, O.P., sanitarnyy vrach

Sewage irrigation of fields and sanitation of natural waters. Gig.
i san. 22 no.9:64-67 > '57. (MIRA 10:12)

1. Zaveduyushchiy kafedroy Obshchey Gigiyeny Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta, chlen-
korrespondent AMN SSSR (for Babayants)

(WATER SUPPLY WATER POLLUTION

sanitary protection of water reservoirs in use of sewage
water for field irrigation)

(IRRIGATION
same)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6

BATMANOVA, O.Ya.

Determining mercury salts in water. Gig. i san. 23 no. 12:80 D '58.
(MERCURY--ANALYSIS)
(MIRA 12:1)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

BATMANOVA, YE. P.

Batmanova, Ye. P. "The rational construction of a garbage truck of the permanent system," San. tekhnika (Nauch.-is-sled. in-t kommunal. khoz-va Ispolkomu Lengorsoveta), Issue 1, 1949, p. 212-29

SO: U-3261, 10 April 53, (Letopis 'shurnal 'nykh Statey, No. 12, 1949)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

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CIA-RDP86-00513R000203920018-6

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6"

~~BATMANOVSKII, Leonid Aleksandrovich; KARPIKHIN, Vladimir Vasil'yevich;~~
UDAL'TSOV, A.N., glavnnyy redaktor; SHTEN', V.M., inzhener, redaktor;
SENKEVICH, I.V., inzhener, redaktor

[Recording double bridge for studying electric properties of alloys.
Stand for measuring the remittance of duct capacitors] Samopishushchii
dvoinoi most dlja issledovaniia elektricheskikh svoistv splavov, Stend
dlja izmereniia soprotivleniya prokhodnykh kondensatorov. Tema 5,
no.1-56-456. Moskva, 1956. 16 p. (MIRA 10:5)

1. Moscow. Institut tekhniko-ekonomicheskoy informatsii,
(Alloys--Electric properties) (Condensers (Electric))

Batmanovskiy YE A.

3

1-462c

Apparatus for determination of admixtures in metals.
B. A. Batmanovskii and I. A. Romanov. U.S.S.R. 102,-
274, Mar. 25, 1958. To det. impurities in a melt, e.g. during
refining, the elec. cond. of the melt is compared with that
of a melt of known compn. This is accomplished by means
of a bridge system comprising resistances and automatic
indicators. The app. consists of 2 V-shaped tubes of refrac-
tory material, one of which is filled with the analyzed melt
and the other with the standard. M. Hosen

BATMENKH, Ch.

Cand Med Sci - (diss) "Clinical aspects, course, and treatment of genito-ano-rectal form of venereal lymphogranuleuma." Moscow, 1961. 10 pp; (Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 10-61 sup,224)

SOV/84-58-10-50/54

AUTHOR: Batner, B., Odessa

TITLE: ~~Ukrainian~~ Pilots in Central Asia (Ukrainskiye letchiki v Sredney Azii)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 10, p. 39 (USSR)

ABSTRACT: The author states that Ukrainian pilots assigned for the past 8 years to Uzbekistan and Kazakhstan cotton and grain fields provided very effective pest control.

Card 1/1

BATMUNKH, Ch.

Clinical course and treatment of the genito-anorectal form of
venereal lymphogranuloma. Klin.khir. no.5148-53 My '63.

(MIRA 16:4)

1. 3-ye khirurgicheskoye otdeleniye (zav. - prof. G.P.Vilyavin)
Instituta khirurgii imeni A.V.Vishnevskogo AMN SSSR.
(LYMPHOGRANULOMA VENEREUM)

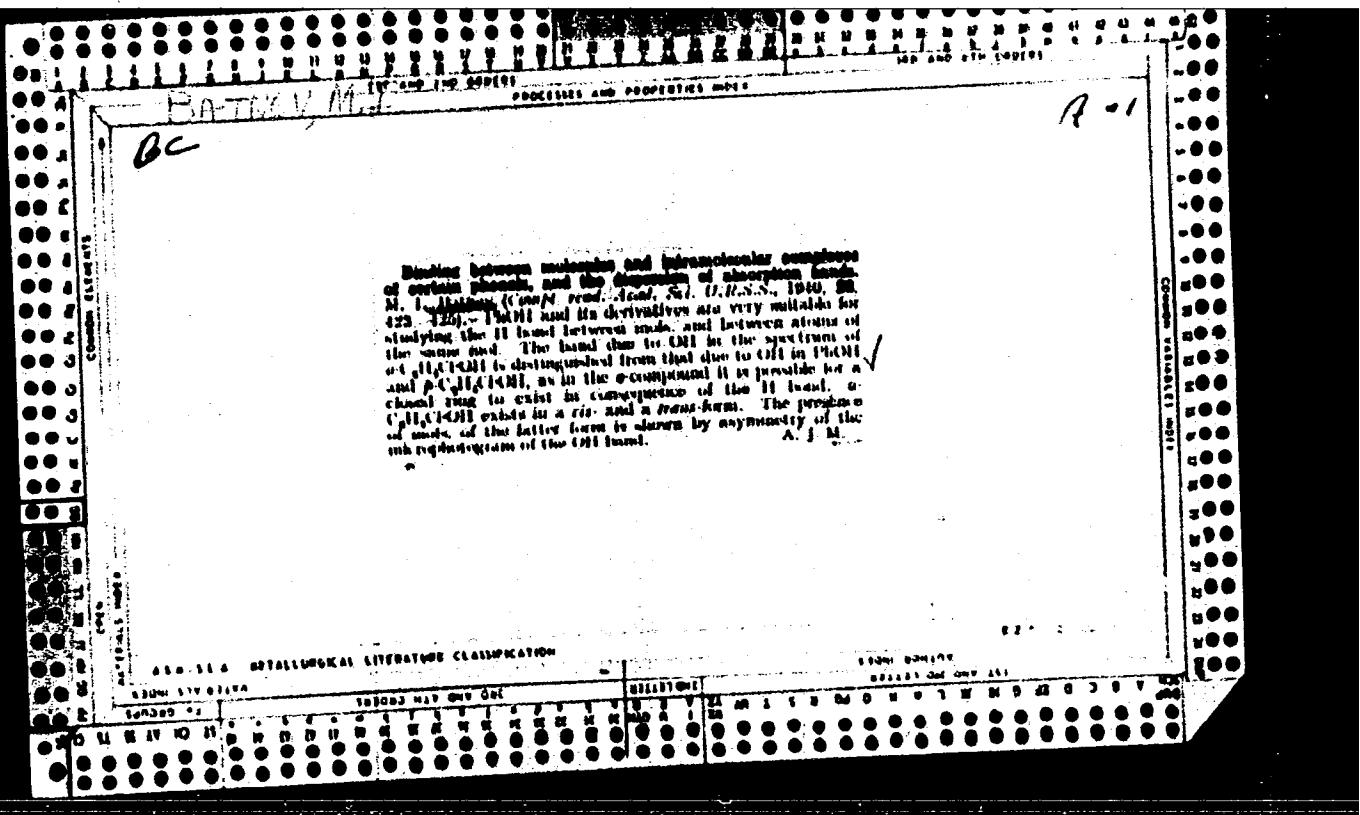
BATNEV, M. I.

B. A Kazanskii, A. V. Koperina and M. I. Batnev, Hydration of cyclopentane hydrocarbons with splitting of the cycle. XI. The hydration of stereoisomeric 1,2,3-trimethylcyclopentanes. P. 503.

During hydration of stereoisomeric 1,2,3-trimethylcyclopentanes, there is observed a transition of each one of them into the mixture of stereoisomers (always with a predominance of 1^c , 2^t , 3^c -trimethylcyclopentane) and a partial splitting of the five numbered cycle with formation of 2,3,4-trimethylpentane.

Inst. of Organic Chemistry of the
Acad. of Sci. USSR
December 25, 1947

SO: Bulletin of the U.S.S.R. Academy of Sciences (Chemistry Series)
Izvestia Akad. Nauk, S.S.S.R., No. 5, 1948.



BATO, Istvan

~~Exemplary initiatives taken by the Cegléd intertrade committee.~~
Munka 12 no.8:14-15 Ag '62.

1. Pestmegyei Szakszervezeti Megyei Tanacs munkatrsa.

YENAL'YEV, V.D. [IEnal'iev, V.D.]; ZAYTSEVA, V.V.; SADOVSKIY, Yu.S.
[Sadov's'kyi, Iu.S.]; BATOG, A.Ye. [Batch, A.IE.]; SADOVSKAYA, T.M.
[Sadov's'ka, T.M.]

Thermal stability and initiating activity of substituted benzoyl
peroxide. Khim.prom. [Ukr.] no.1:17-20 Ja-Mr '64. (MIRA 17:3)

NAZAROVA, Z.F.; BATOG, A.Ye.; YENAL'YEV, V.D.; ROMANTSEVICH, M.K.

Condensation of tertiary amyl hydroperoxide with some
carbonyl compounds. Zhur. ob. khim. 34 no.7:2430-2432
Jl '64 (MIRA 17:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut plastmass,
Donetsk.

BATOG, A.Ye.; SOKOINA, A.N.; YEHAI'YEV, V.D.; ROMANTSEVICH, A.E.

Synthesis of some tert-amylperacylates. Ukr. khim. zhur. 30
no.9:954-955 '64. (MINA 17:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh
mass, Donetsk.

BATOG, A.Ye.; TATARSKAYA, I.M.; BOCHAROVA, Yu.Ye.; YENAL'YEV, V.D.;
ROMANTSEVICH, M.K.

Synthesis of peroxide and hydroperoxide of tertiary butyl.
Ukr.khim.zhur. 31 no.2:207-208 '65. (MIRA 18:4)

l. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh
mass, Donetsk.

SOROKINA, A.N.; BATOG, A.Ye.; ROMANTSEVICH, M.K.

Furan-containing pectesters. Zhur. org. khim. i no. il. 2050.
2051 N '65. (MZhKh 19:12)

1. Submitted October 24, 1964.

L 26370-66 EWP(1)/EWT(m)/T RM/JD
ACC NR: AP6011197

SOURCE CODE: UR/0413/66/000/006/0028/0028

INVENTOR: Batog, A. Ye.; Mashnenko, O. M.; Romantsevich, M. K.25
B

ORG: none

TITLE: A method for producing peroxide compounds containing silicon. [Class 12,
No. 179770] [announced by Ukrainian Scientific Research Institute of Plastics (Ukrain-
skiy nauchno-issledovatel'skiy institut plastmass)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 28

TOPIC TAGS: silicon plastic, peroxide, halogenated organic compound, silane

ABSTRACT: This Author's Certificate introduces a method for producing peroxide com-
pounds containing silicon in which the peroxide group is not directly linked to the
silicon atom. Alkyl(aryl)peroxyalkanols are interacted with organic silane halides in
the presence of a base in an inert solvent, e. g. hexane, at a temperature of -20 to
+40°C.

SUB CODE: 07,11/ SUBM DATE: 30Nov64/ ORIG REF: 000/ OTH REF: 000

UDC: 547.419.5-39.07

Card 1/1

AUTHORS:

Batolin, N.A., Vetrenko, Ye.A.

SOV/ 89-4-6-25/30

TITLE:

The Use of Radioactive Isotopes in Metallurgical Investigations
(Primeneniye radioaktivnykh izotopov v metallurgicheskikh issledovaniyakh)

PERIODICAL:

Atomnaya energiya, 1958, Vol. 4, Nr 6, pp. 603-604 (USSR)

ABSTRACT:

The following communications made by the Institute of Metallurgy of the Ural Branch, AS USSR, are dealt with:

- 1.) Desulfurization of the transformer beam with S³⁵. Per ton of molten metal 150 mC is added. Every 5 minutes a sample is investigated as to its radioactivity, and desulfurization is measured. It was found that desulfurization can be improved by mixing the metal with the slags when slagging secondary slags and alloying with ferrosilicon.
- 2.) Determination of isotope exchange between slags and metal by means of S³⁵. It was found that after the metal had been in the ladle for 20 minutes, hardly any S³⁵ passes from the slags into the metal.
- 3.) Also the mechanism of the reciprocal behavior of a number of sulfides and sulfates and sulfur anhydrides was investigated

Card 1/2

The Use of Radioactive Isotopes in Metallurgical Investigations

SOV/89-4-6-25/30

with S³⁵.

- 4.) The desulfurization of cast iron was investigated by means of Fe⁵⁹. It was found that iron does not enter the slags together with sulfur as ferrous sulfide, but by some other way.
- 5.) By means of Zn⁶⁵ and Se⁷⁵ it was possible considerably to reduce the number of experiments hitherto carried out when using complex minerals for the production of nonferrous metals.
- 6.) Co⁶⁰ was used for the purpose of determining the distribution of metal between barren rock and slags in nickel production. There are 3 Soviet references.

1. Metals--Processing
2. Metallurgy--USSR (Radioactive)--Applications
3. Isotopes

Card 2/2

S/137/62/000/005/013/150
A006/A101

AUTHORS: Lepinskikh, B. M., Yesin, O. A., Musikhin, V. I., Batolin, N. A.

TITLE: Electrochemical metal alloying with vanadium

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 31, abstract 5V199
(V sb. "Fiz.-khim. osnovy proiz-va stali", Moscow, AN SSSR, 1961,
238-241)

TEXT: Experiments were made on electrolysis of V-containing slags with Fe-P and Fe cathodes. Electrolysis with Fe-cathode was performed at 1,600°C in oxidizing and reducing atmosphere. It was found that at 5 - 25% V₂O₅ content in the slag and 0.2 - 2.0 amp/cm² current density, the current efficiency in electrolysis in reducing atmosphere with Fe-cathode was as high as 80 - 87%. It is mentioned that the slags should not contain FeO, since in electrolysis of such slags Fe is also deposited on the cathode and current efficiency of V decreases.

A. Sergeyev

[Abstracter's note: Complete translation]

Card 1/1

BATOLSKA ANT.

BULGARIA/Safety Engineering. Sanitary Engineering. Sanitation

L.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14270

Author : Batolska Ant.

Title : Chronic Occupational Mercury Poisoning

Orig Pub : S"vrem. med., 1956, 7, No 4, 51-61

Abstract : Medical examination of 66 persons who have been exposed to contact with Hg over a period of about 20 years elicited complaints of headaches, insomnia, apathy, nosebleed, metallic taste in the mouth, pains in the region of the stomach. In 17 persons were found tachycardia, systolic murmurs, cardiac atony; in 17 -- red dermatographia, tremors of the fingers, increased skin and tendon reflexes; in 26 -- gingivitis, stomatitis, glossitis; changes in blood pressure were not observed. In 29 persons with a long history of occupationalexposure, who had symptoms of Hg poisoning, the average hemoglobin content in the blood was 72.31%, average number of

Card 1/2

- 6 -

Nauchno-issledov. Inst. po Trudov. Khigieini + Profes. bolesti.

BATOLSKA, Ant.

ZOLOFF, Chr.

RUMANIA

MD

Science Institute for the Protection of Labor and Professional Diseases, Sofia, Bulgaria (Institutul Stiintific de Protectie a Muncii si Boli Profesionale).

Bucharest, Igiena, Revista de Igiena si Sanatate Publica, No 5, Vol XI, Sep-Oct 62, pp 389-394.

"Pulmonary Affections in Workers Employed in Cotton Spinning Mills." (Paper compiled at the Science Institute for the Protection of Labor and Professional Diseases, Sofia, Bulgaria.)

Co-author:

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"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000203920018-6

BATONIU, Petre; MIRCEA, Cocea; DIAMANDESCU, Ecaterina

Chromatographic separation of mixtures of coloring matters.
Industria usoara II no.5:245-249 My '64.

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BRENNER, J.; BATONYI, K.

Eosinophilic leukemia. Gyermekgyogyassat 4 no. 4:116-118 Apr 1953.
(CIML 24:4)

1. Doctors. 2. Children's Department (Head Physician -- Dr. Jozsef Lukacs), Istvan Metropolitan Hospital.

BATOR, Bela

Closing address and proposition. Ipari energia 3 no.1/2:42-44
Ja-F '62.

1. Nötechnikai Kutató Intézet helyettes igazgatója.

EATOR, B.

Current and long-range problems in the field of heat technological
research. p. 508.

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)
Budapest, Hungary. Vol 12, no. 9, Oct. 1959.

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Uncl.

Country	:	Hungary	H-22
Category	:		
Abs. Jour.	:		47116
Author	:	<u>Bator, B.</u>	
Institut.	:		
Title	:	Predrying of Coal	
Orig Pub.	:	Energia es Atomtechn., 1957, 10, No 8-10, 563-571	
Abstract : Description of various procedures of drying coal with a moisture content from 22 to 48%, which have been developed at the Power Engineering Institute in Hungary. Designs of the following driers are presented: batch drier with dual circulation; tubular, pneumatic, of constant flow; funnel-shaped with a sorting device, etc. Results are reported, of experiments on determination of the effect of drying on combustion of coal under boilers, on milling, on gasification of coal. -- S. Rozenfel'd.			
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